

Industrial Sandblasting & Surface Prep Safety Checklist

Site / Project	_____	Address	_____
Inspector name	_____	Company	_____
Date	_____	Time	_____

Documentation aid only. Adapt this resource to the site, manufacturer instructions, and applicable local requirements. It does not replace a competent person, professional judgment, legal advice, or a required statutory form.

Inspection checklist

Respiratory Protection & Air Quality

☐ Is current fit test documentation (within 12 months) available for each abrasive blasting operator using a supplied air respirator? (OSHA 1910.134(f))	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Inspect Supplied Air Respirator (SAR) hoses for cuts, kinks, abrasions, and secure connections before each shift. (ANSI Z9.4)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Verify air compressor maintenance records are up-to-date, including filter changes and inspections. (Manufacturer's Recommendations)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Has the supplied air been tested within the last 6 months for contaminants (oil, water, carbon monoxide) and is the air Grade D or better? (OSHA 1910.134(i)(1)(ii))	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Is a continuous carbon monoxide (CO) monitor with audible alarm functioning correctly and positioned to detect CO in the supplied air? (OSHA 1926.57(g)(1)(i))	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Are respirators cleaned and disinfected after each use, and properly stored to prevent damage and contamination? (OSHA 1910.134(h)(1))	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Is the air pressure at the respirator sufficient to meet the manufacturer's specifications and the operator's needs? (Check with a pressure gauge at the respirator).	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐ Is there a backup air supply available in case of primary compressor failure? (Recommended Best Practice)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

☐	Inspect air-line filters for condition and ensure they are appropriate for removing oil, water, and particulates. (Manufacturer's Specifications)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Check the respirator exhalation valve for proper function and cleanliness. (OSHA 1910.134)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Abrasive Blasting Equipment & Controls

☐	Verify the deadman switch is functioning correctly: nozzle stops immediately when the handle is released. (OSHA 1926.57(c)(1))	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect blast hose for cuts, bulges, abrasions, and secure couplings before each shift. (OSHA 1926.302(b)(4))	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Check nozzle for wear and proper size. Replace if worn beyond manufacturer's specifications. (Manufacturer's Recommendations)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure the abrasive blasting pot is equipped with a functional pressure relief valve. (ASME Boiler and Pressure Vessel Code)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are hose whip checks installed and properly secured on all blast hoses to prevent whipping in case of coupling failure? (Recommended Best Practice)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	If using a remote control system, verify it is functioning correctly and properly grounded. (OSHA 1926.302)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify the abrasive being used is the correct type for the application and does not contain free silica above permissible limits if silica is prohibited. (SDS Review)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect the blast pot for leaks, corrosion, and structural integrity. (Manufacturer's Recommendations)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Confirm the blast pressure is set according to the manufacturer's recommendations and the specific task requirements. (Manufacturer's Recommendations)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify grounding continuity between the blast pot, nozzle, and workpiece to prevent static discharge. (NFPA 77)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Blast Booth & Containment

☐	Verify the blast booth ventilation system is operating effectively and maintaining adequate air flow to remove dust and contaminants. (ACGIH Industrial Ventilation Manual)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
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☐	Check dust collector filters and ensure they are clean and functioning properly. (Manufacturer's Recommendations)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect blast booth walls, doors, and seals for damage or leaks that could allow dust to escape. (Good Engineering Practices)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure the blast booth is properly grounded to prevent static discharge. (NFPA 77)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify all lighting within the blast booth is explosion-proof and properly maintained. (NFPA 70)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Maintain good housekeeping practices within the blast booth to minimize dust accumulation. (General Industry Standards)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Conduct air monitoring outside the blast booth to ensure dust levels are within permissible exposure limits (PELs). (OSHA 1910.1000)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify proper procedures are in place for the collection, storage, and disposal of spent abrasive material. (Local Environmental Regulations)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure appropriate warning signs and barriers are in place to restrict access to the blasting area. (ANSI Z535)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify the blast booth has a readily accessible emergency shutdown switch. (Recommended Best Practice)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Personal Protective Equipment (PPE)

☐	Confirm all personnel within the blasting area are wearing appropriate PPE, including supplied air respirators, hearing protection, eye protection, and protective clothing. (OSHA 1910.132)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Operators perform a positive and negative pressure seal check on their respirators before each use. (OSHA 1910.134)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify hearing protection has an appropriate Noise Reduction Rating (NRR) for the noise levels in the blasting area. (OSHA 1910.95)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Ensure eye protection (safety glasses or face shield) is ANSI Z87.1 compliant and provides adequate protection from abrasive particles. (ANSI Z87.1)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Inspect protective clothing (e.g., leather or canvas suits) for damage and ensure it provides adequate coverage. (Recommended Best Practice)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

☐	Inspect gloves for holes, tears, and wear. Ensure they provide adequate protection from abrasion and impact. (OSHA 1910.138)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify foot protection (safety shoes or boots) meets ANSI Z41 standards and provides adequate protection from impact and compression. (ANSI Z41)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are procedures in place for cleaning and maintaining PPE to ensure its effectiveness? (OSHA 1910.132)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	PPE is stored properly to prevent damage and contamination. (OSHA 1910.132)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	If required, is a communication system in place and functioning properly to allow operators to communicate with personnel outside the blasting area? (Recommended Best Practice)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Documentation & Training

☐	Is a written hazard communication program in place, including Safety Data Sheets (SDS) for all materials used? (OSHA 1910.1200)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Verify employee training records are up-to-date, including training on abrasive blasting hazards, PPE use, and safe operating procedures. (OSHA 1926.21)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are SDS readily available to all employees in the blasting area? (OSHA 1910.1200)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is a written abrasive blasting procedure available and followed? (Recommended Best Practice)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is a written emergency action plan in place, including procedures for fire, medical emergencies, and equipment failure? (OSHA 1910.38)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is a first-aid kit readily available and adequately stocked? (OSHA 1910.151)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are records of equipment inspections and maintenance kept and readily available? (Recommended Best Practice)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Are air quality test results documented and readily available? (OSHA 1910.134)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	If blasting in a confined space, is a confined space entry permit system in place and followed? (OSHA 1910.146)	☐ Pass	☐ Fail	☐ N/A	Notes: _____
☐	Is a Job Hazard Analysis (JHA) or Task Hazard Assessment (THA) completed for the specific blasting task? (Recommended Best Practice)	☐ Pass	☐ Fail	☐ N/A	Notes: _____

Findings

#	Item	Location	Severity	Action required
1				
2				
3				
4				
5				
6				
7				
8				

Signature

Inspector signature _____

Name _____

Date _____